CDS
Crystal Display Systems Ltd

High Performance Edge Computer

BQ614

B760/H610CHIPSET HIGH-END RICH-CLIENT

Intel® LGA1700 Socket
12th/13th/14th Gen. Processors

3
1 x HDMI, 1 x DP/VGA, 1 x DP from Type-C
Up to 4096 x 2160 @60 Hz

RTC
Watchdog Timer
Chassis Intrusion

Support NVMe SSD

CPU

CPU	Intel® LGA1700 Socket 12th/13th/14th Gen. processors
Frequency	by CPU
Chipset	B760 /H610
Processing Units	by CPU
Base Power	≤ 65 W

Network

NetworkController	1 x Realtek RTL 8111H Gigabit Ethernet 1 x Intel Ethernet Controller I226-V
Ethernet Interface	1 x 1GbE RJ45, 1 x 2.5GbE RJ45
Wi-Fi/BT	1 x E-Key (2230) for Wi-Fi/BT Support Wi-Fi 6 /6E (CNVi), Wi-Fi 7 (Only14th Gen CPU)
Mobile Network	1 x B-Key M.2 (3042/3052) for 4G /5G, 1 x SIM Slot

System

System Memory	Up to 96 GB, 2 x SO-DIMM DDR5-5600 MHz 1 x M-
Storage	Key M.2 (2280) PCIe3.0 X4 for SSD 1 x 2.5” SATAIII Optional: TPM2.0
TPM	Yes
Watchdog Timer	Yes
Auto Power On	Set up independently every day, a week as a cycle
RTC	DC-IN, 19 V/6.32 A 200 mm x 185 mm x 35.5 mm
Power Requirement	(7.87” x 7.28” x 1.40”)
Dimensions	Metal, Black
Construction	Windows 11 (64bit) /Linux Ubuntu (64bit)
Operating System	0°C ~45°C (32°F~113°F) @0.7m/s Air Flow
Operating Temperature	95% @ 45°C (non-condensing)
Humidity	CE, FCC Class B, UKCA
Certifications	

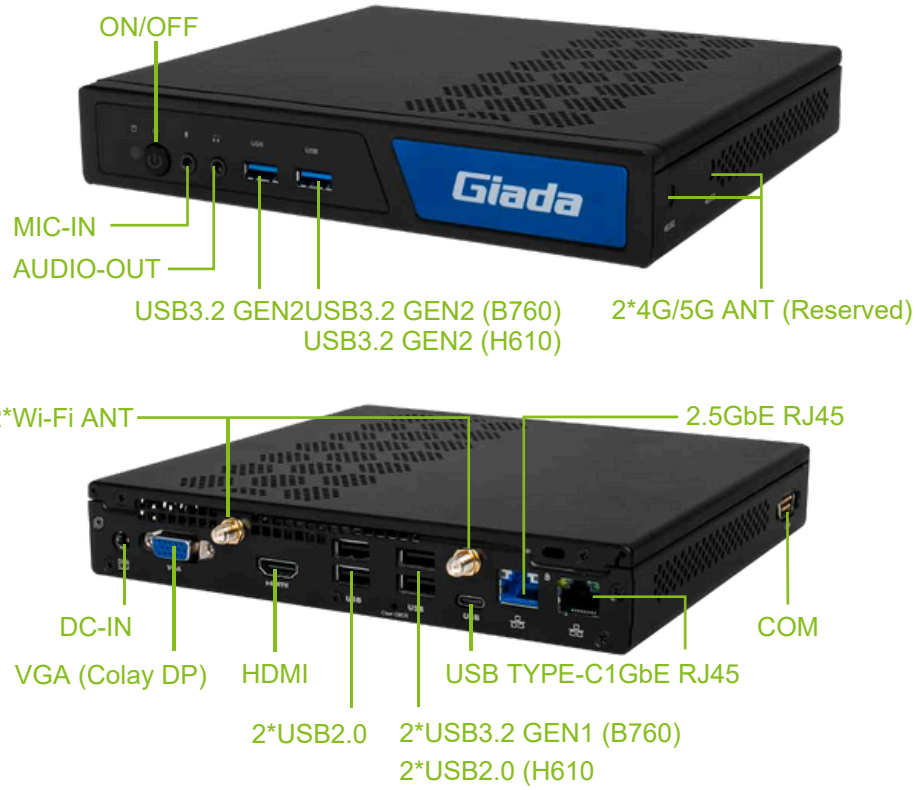
Display

GPU	Intel® UHD Graphics 730/770
Graphic Engine	DirectX 12, OpenGL 4.5, OpenCL 3.0,
Display Interface	1 x HDMI (Max. 4096 x 2160 @60 Hz) 1 x DP1.4 (Max. 7680 x 4320 @60 Hz), Optional: VGA colay with DP
Multi-display	3 display (included 1 output from Type-C)

I/O interface

USB (B760)	1 x USB Type-C3.2 Gen2 (Supports DP1.4 output) 2 x USB3.2 Gen2, 2 x USB3.2 Gen1, 2 x USB2.0
USB (h610	1 x USB Type-C3.2 Gen2 (Supports DP1.4 output) 1 x USB3.2 Gen2, 1 x USB3.2 Gen1, 4 x USB2.0
Serial Port	1 x RS232
Audio	1 x MIC-IN, 1 x AUDIO-OUT
Button	1 x Power on, 1 x CLR-CMOS
Antenna	2 x Connector for Wi-Fi/BT, 2 x Connector for 4G/5G (Reserved)

Dimensions and Drawing



Order information

BQ614-0000040N0G-GIA	CPU: Intel LGA1700 Socket 12th/13th/14th Gen. processors Chipset: B760
BQ614-0000040N1G-GIA	CPU: Intel LGA1700 Socket 12th/13th/14th Gen. processors Chipset: H610
Packing List	2 x Wi-Fi Antenna, 1 x AC Power Cable,1 x AC Power Adapter
Package	Carton, EPE

Optional items

Mounting	Mounting Kit (JP100)
Wi-Fi/BT Module	**Wi-Fi 5 (802.11ac):** Intel® Wireless-AC 9560 **Wi-Fi 6 (802.11ax)**: Intel® Wi-Fi 6 AX201, **Wi-Fi 6E (802.11ax)**: Intel® Wi-Fi 6E AX210
Mobile Network Module	Quectel® RM500Q 5G, Quectel® EM12 4G, Quectel® EM05-E
Operating System License	Windows 11 (64bit)

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Want More Information? Contact Us Now

Need any additional information?

If you need any assistance with pricing information, technical support or require any additional information our team would be more than happy to assist

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Note: Monitor images are for marketing purposes only and you should refer to the mechanical diagrams for accurate dimensions and designs